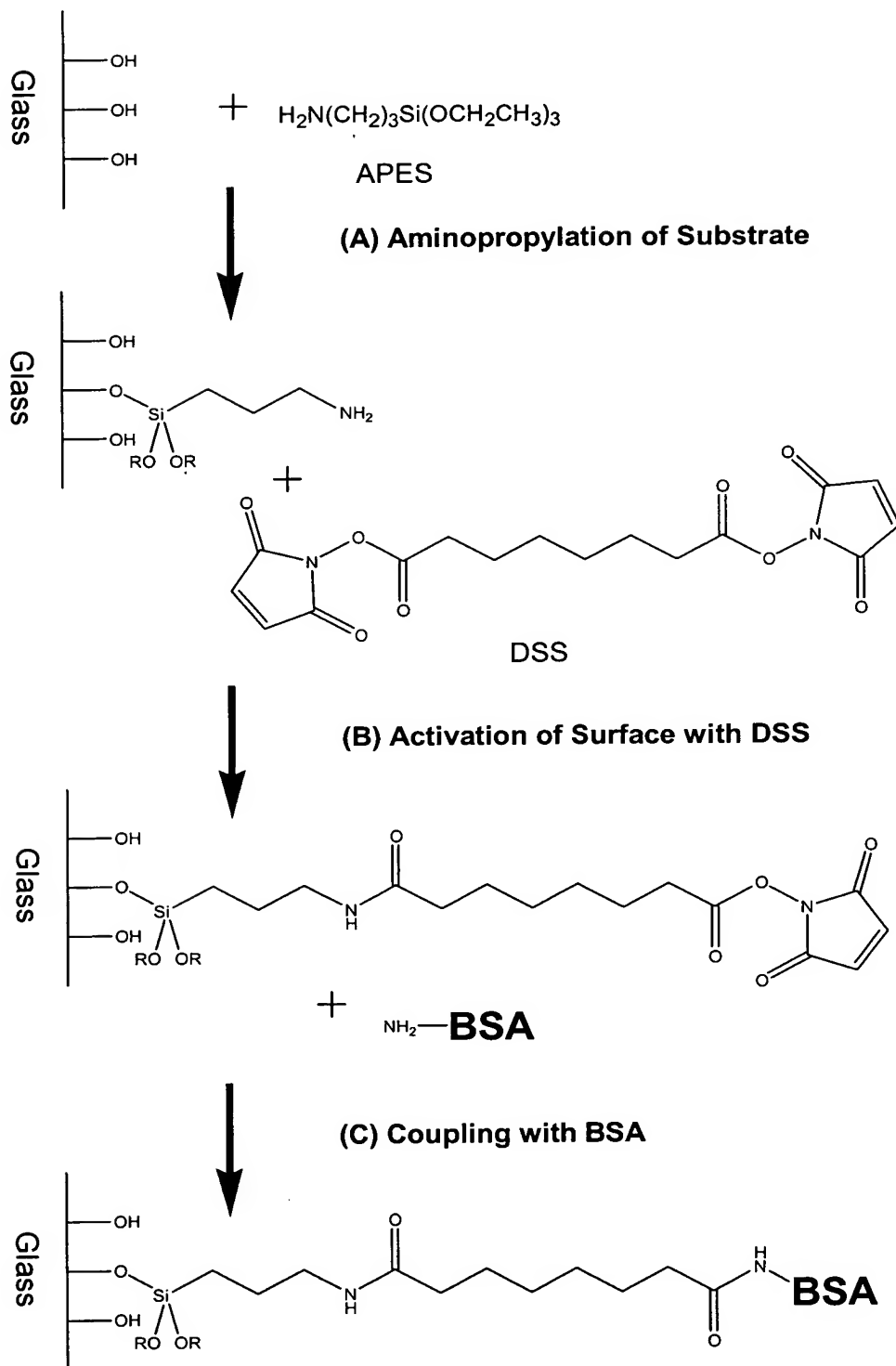


Figure 1



**BIOCHEMICAL BLOCKING LAYERS FOR  
LIQUID CRYSTAL ASSAY**

Atty. Docket No.: 032026-0736  
Attorney: Bernard P. Friedrichsen  
(608) 258-4281  
Sheet 2 of 12

Figure 2

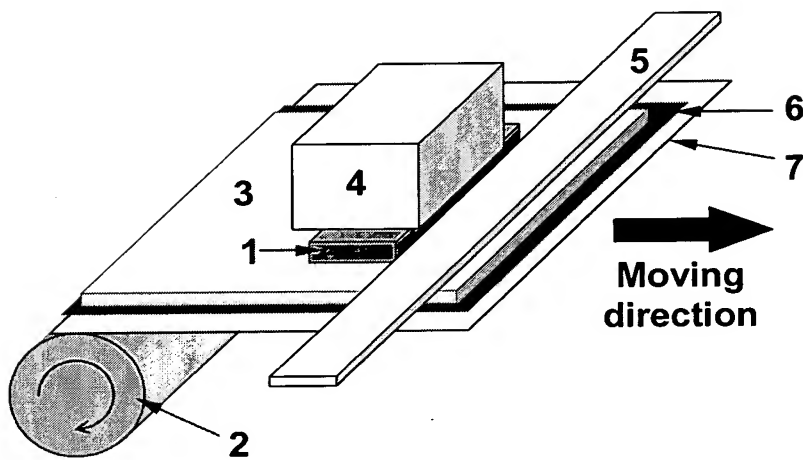


Figure 3

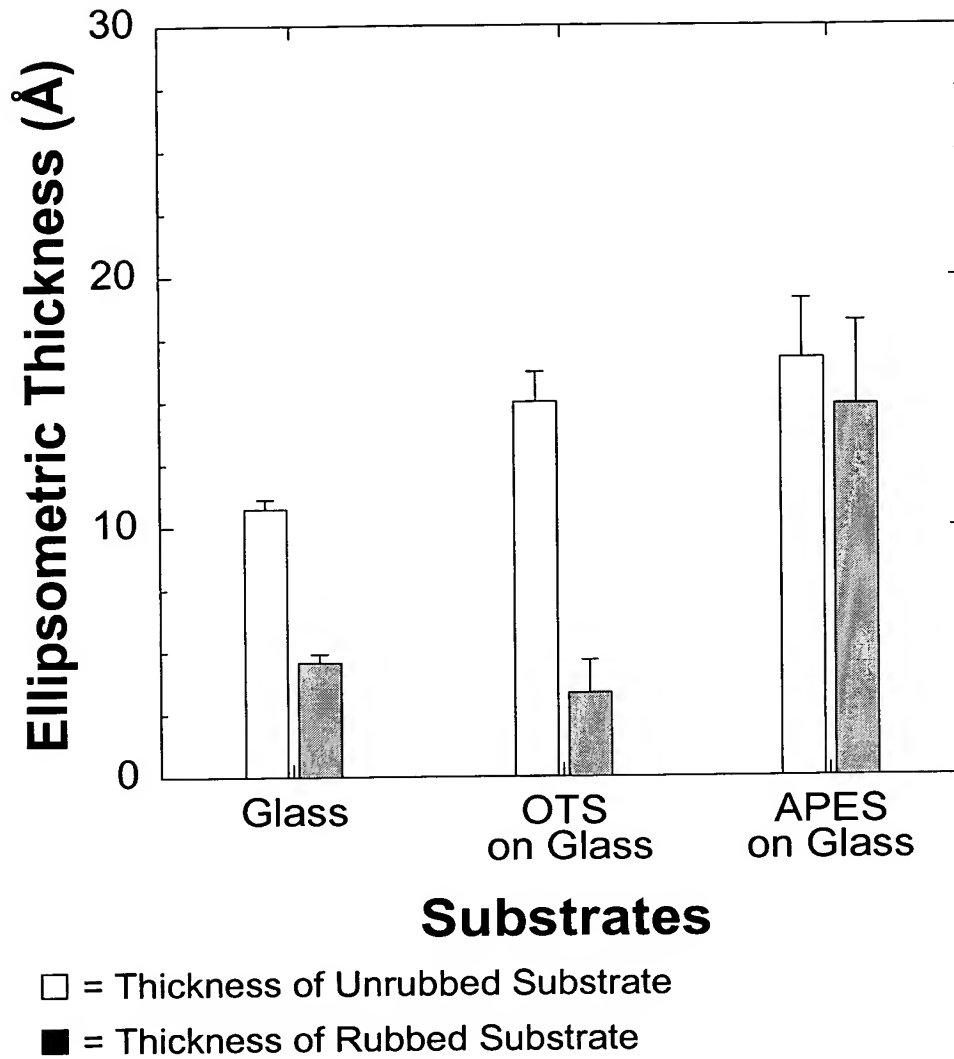


Figure 4

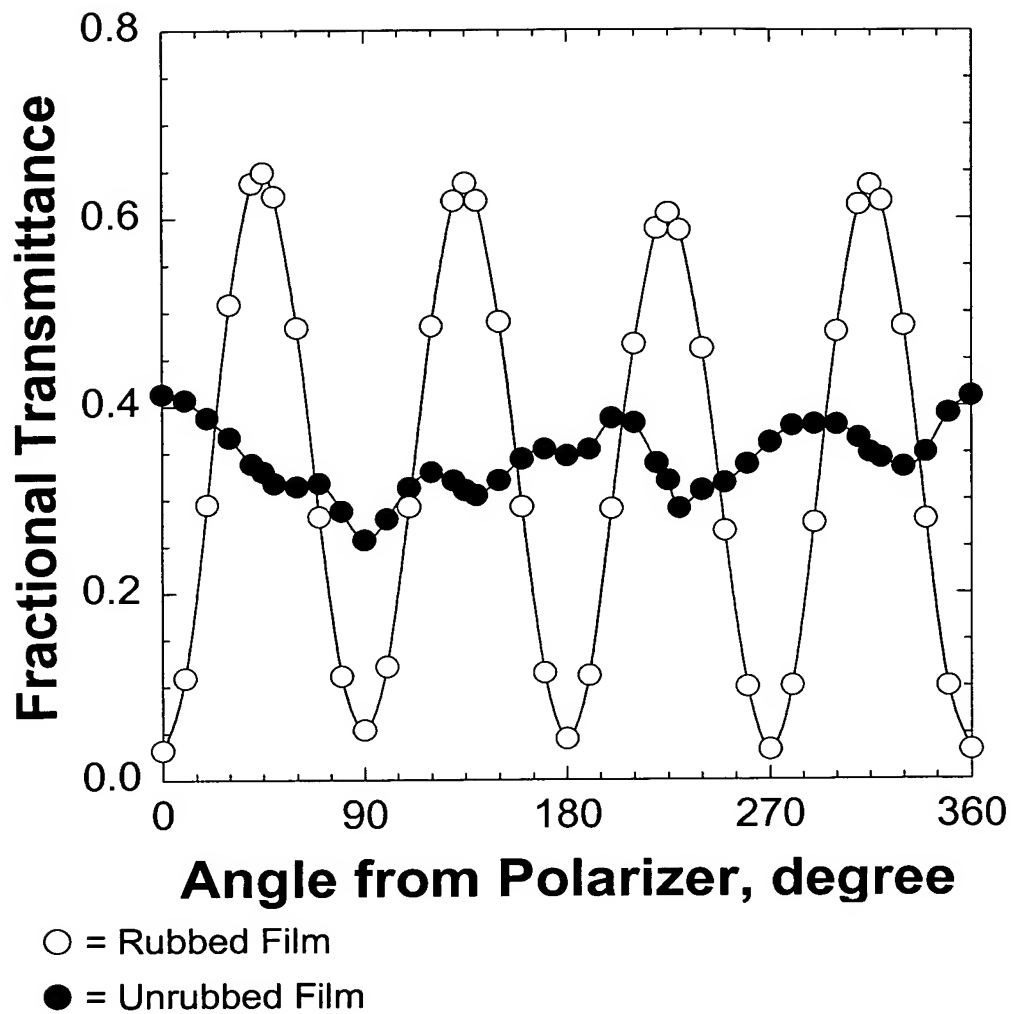


Figure 5

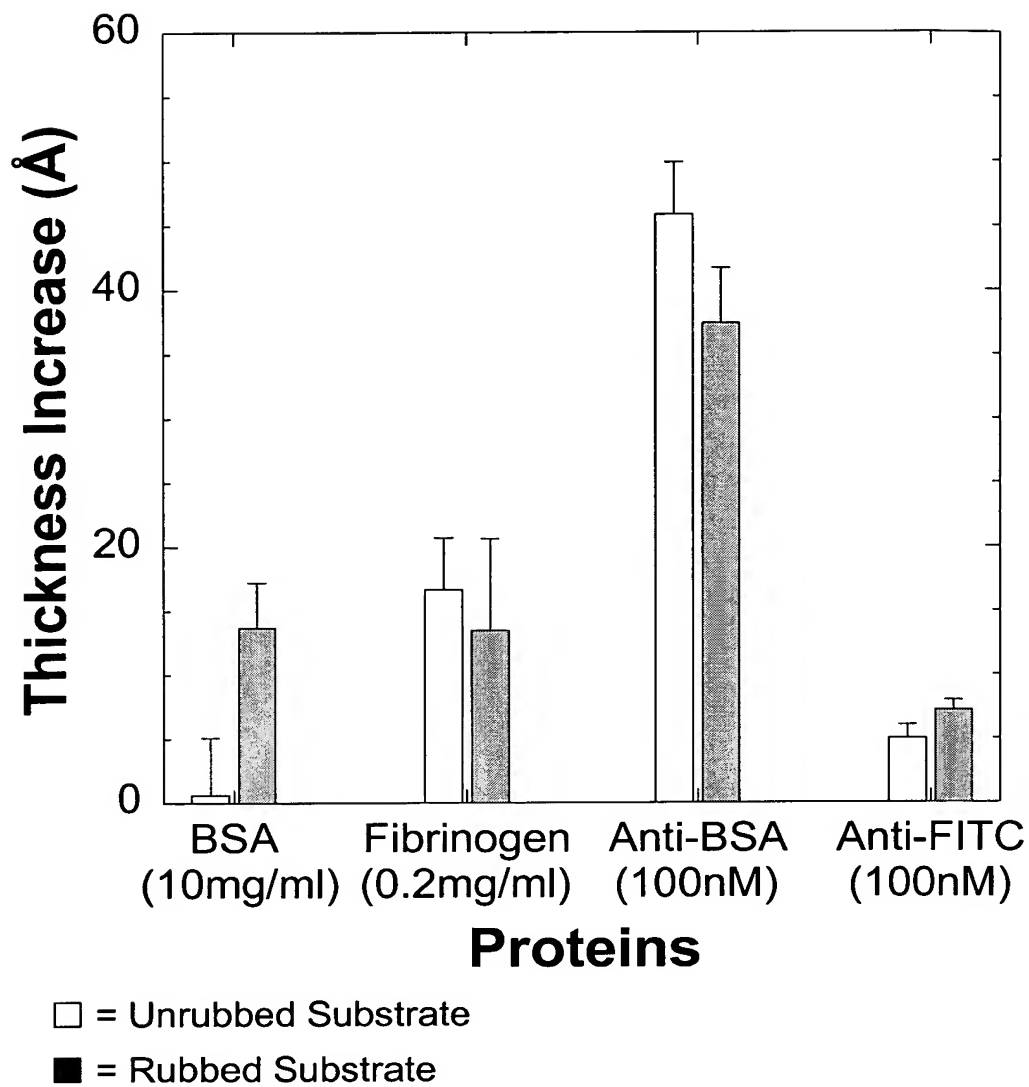
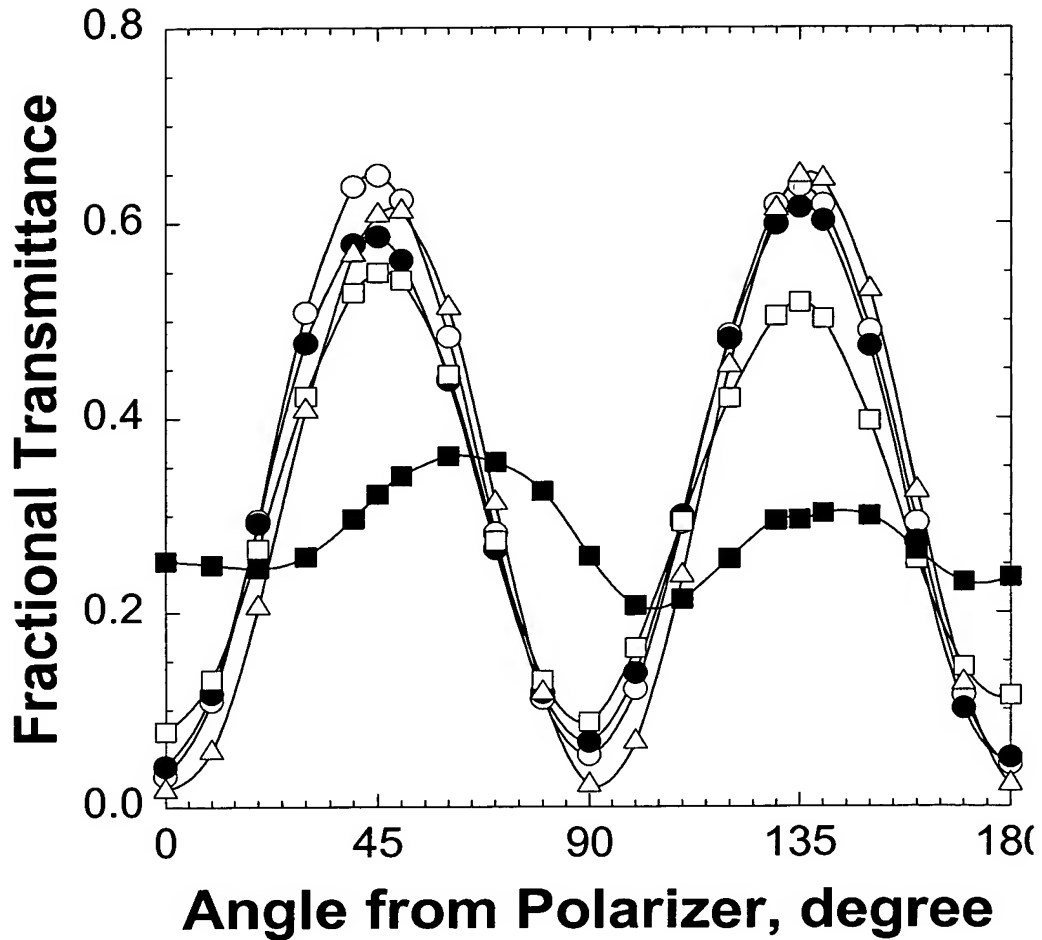


Figure 6



- = Rubbed immobilized BSA substrate
- = After 2 hour immersion in PBS-buffered 10 mg/mL BSA solution
- = After 2 hour immersion in PBS-buffered 0.2 mg/mL fibrinogen solution
- = After 2 hour immersion in PBS-buffered 100nM anti-BSA solution
- △ = After 2 hour immersion in PBS-buffered 100nM anti-FITC solution

Figure 7

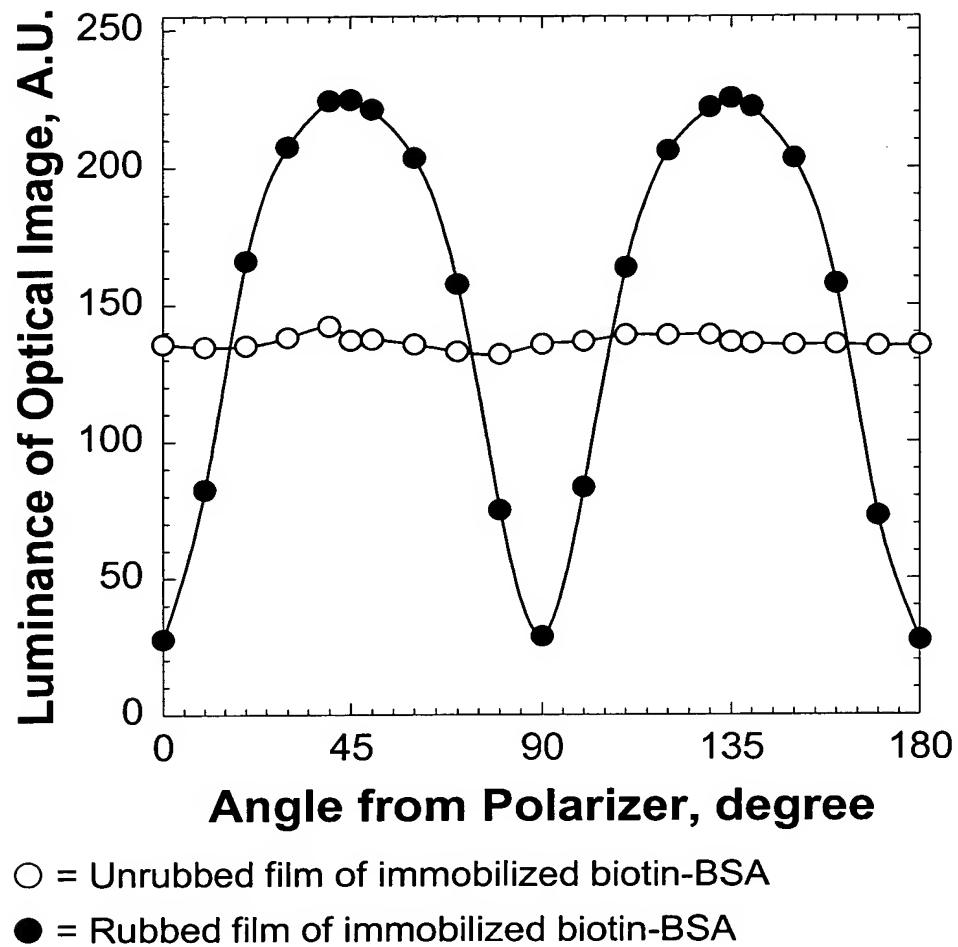
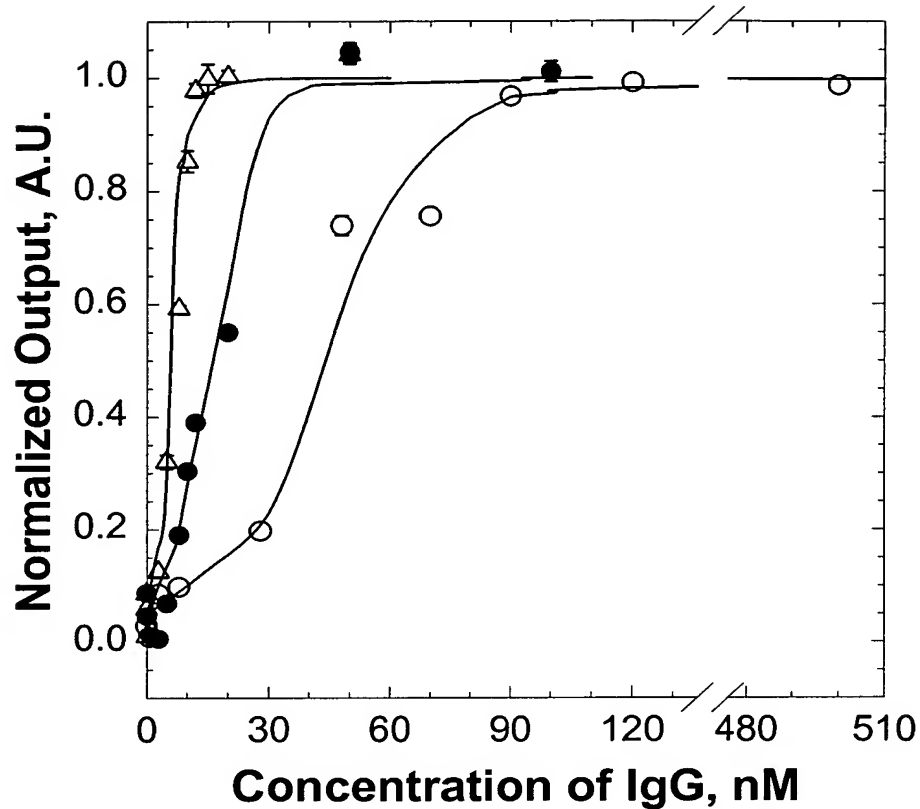


Figure 8



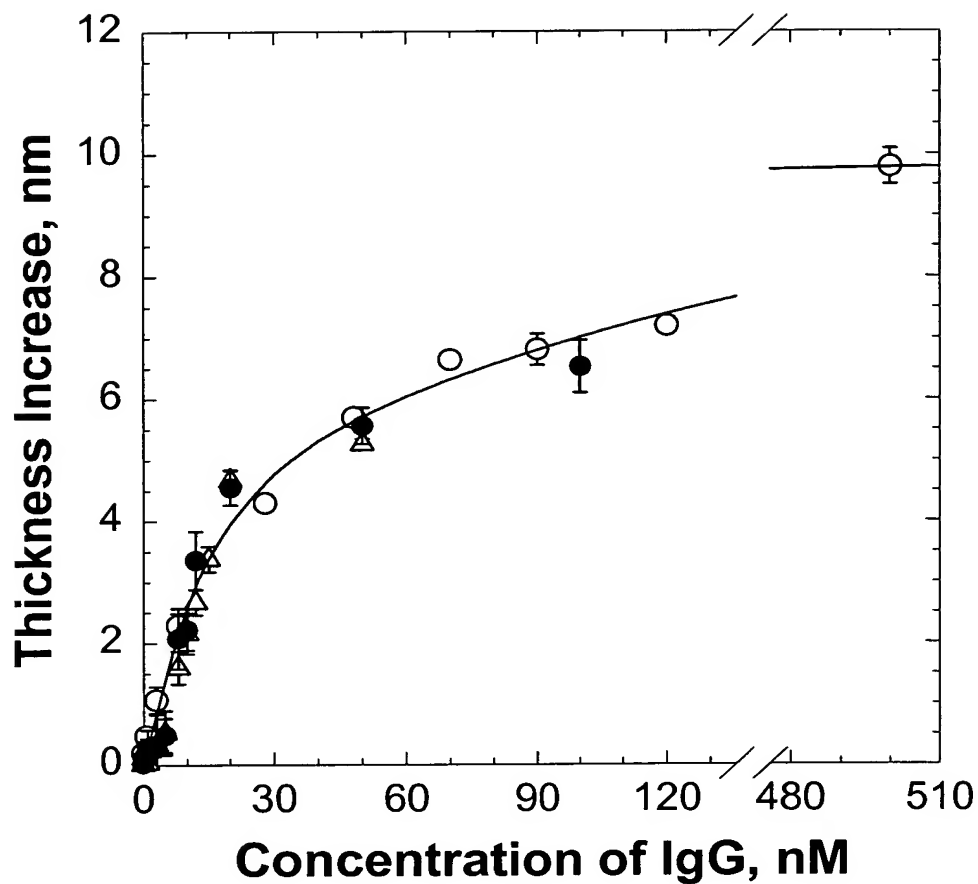
○ = Rubbing conditions of about 2.1 mm/second; 127 mm; and 1,000 Pa

● = Rubbing conditions of about 2.1 mm/second; 127 mm; and 250 Pa

△ = Rubbing conditions of about 2.1 mm/second; 51 mm; and 250 Pa



Figure 9

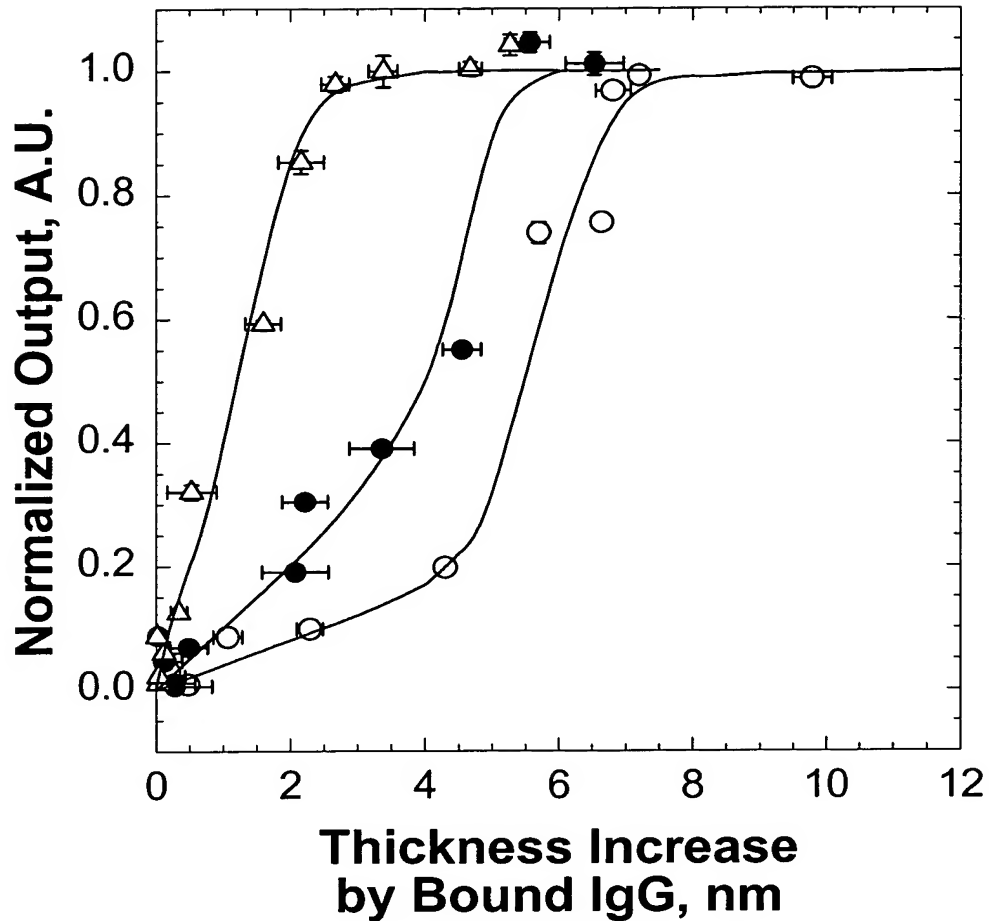


○ = Rubbing conditions of about 2.1 mm/second; 127 mm; and 1,000 Pa

● = Rubbing conditions of about 2.1 mm/second; 127 mm; and 250 Pa

△ = Rubbing conditions of about 2.1 mm/second; 51 mm; and 250 Pa

Figure 10

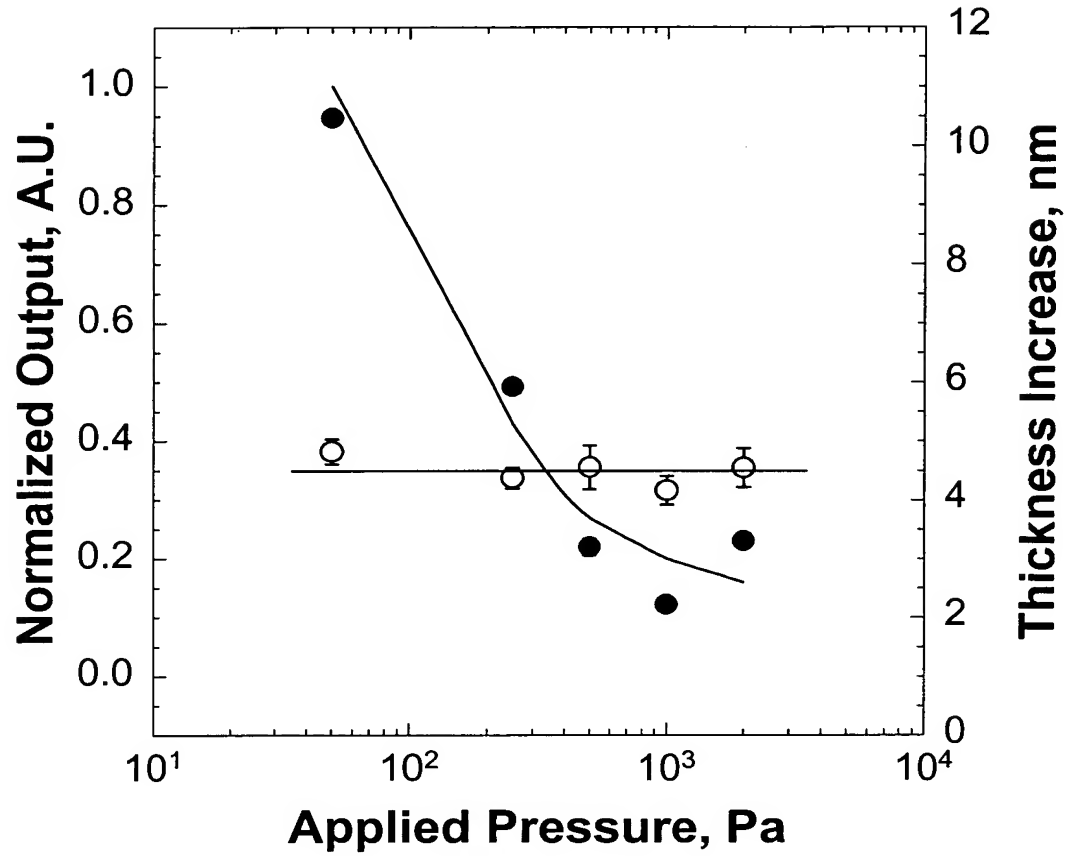


○ = Rubbing conditions of about 2.1 mm/second; 127 mm; and 1,000 Pa

● = Rubbing conditions of about 2.1 mm/second; 127 mm; and 250 Pa

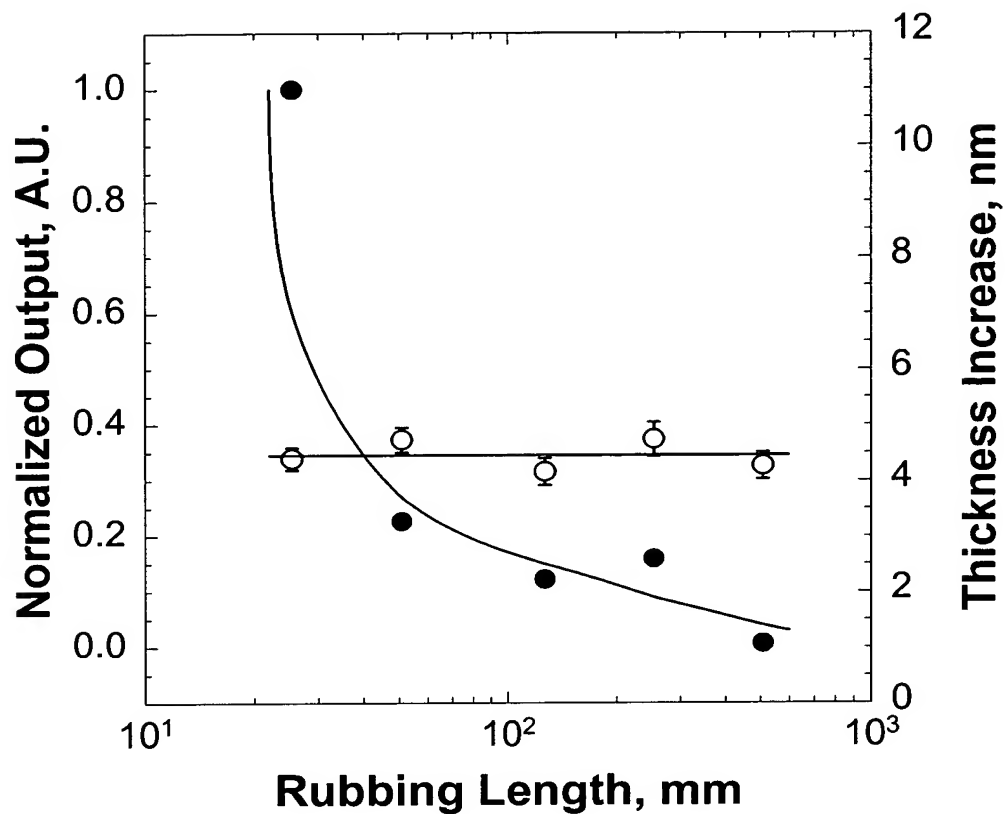
△ = Rubbing conditions of about 2.1 mm/second; 51 mm; and 250 Pa

Figure 11



- = Increase in Thickness  
● = Rubbed film of Biotin-BSA

Figure 12



- = Increase in Thickness  
● = Rubbed film of Biotin-BSA